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## (54) AGENT FOR SUPPORTING TRANSPLANTATION TREATMENT OF BONE MARROW

(57)Abstract:

PURPOSE: To obtain the title supporting agent containing a human B cell differentiation factor (human BCDF) as an active ingredient, having action replicating a trunk cell and capable of preventing complication in application of transplantation treatment of bone marrow to leukocyte. CONSTITUTION: An agent for supporting transplantation treatment of bone marrow containing a human BCDF such as a natural human BCDF having an amino acid sequence expressed by the formula or a human Ala-BCDF obtained by adding one Ala to N end of the natural human BCDF, preferably at an amount of 0.1-1.0wt.%. Effect as the supporting agent is synergistically increased by adding IL-3, IL-1, IL-4, IL-5, G-CSF, GM-CSF or M-CSF capable of enhancing acceleration of hematopoietic function as auxiliary to the human BCDF. By using above-mentioned supporting agent, the trunk cell can be cultured and propagated also in vitro. Further, after the trunk cell in a transplanting cell is replicated by adding the above-mentioned supporting agent to a myeloid cell taken out before transplantation, the myeloid cell can be also transplanted.

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